#2

ENTERED

RAW SEQUENCE LISTING   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:33

Input Set : A:\427d3.app.txt
Output Set: N:\CRF3\12212001\J010940.raw

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      4 <110> APPLICANT: Xu, Jiangchun
      5         Dillon, Davin C.
      6         Mitcham, Jennifer L.
      7         Harlocker, Susan Louise
      8         Jiang Yuqui
      9         Reed, Steven G.
     10         Kalos, Michael
     11         Fanger, Gary
     12         Retter, Mark
     13         Solk, John
     14         Day, Craig
     16 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
     17         DIAGNOSIS OF PROSTATE CANCER
     19 <130> FILE REFERENCE: 210121.427D3
C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/010,940
     22 <141> CURRENT FILING DATE: 2001-12-05
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     30 <212> TYPE: DNA
     31 <213> ORGANISM: Homo sapien
     33 <220> FEATURE:
     34 <221> NAME/KEY: misc_feature
     35 <222> LOCATION: (1)...(814)
     36 <223> OTHER INFORMATION: n = A,T,C or G
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     41  ccaggggtc cagtccctct ccttacttca tccccatccc atgccaaagg aagaccctcc     180
     42  ctccttggct cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt     240
     43  tttcagctcc atccttgctg tgagtgtctg gtgcgttgtg cctccagctt ctgctcagtg     300
     44  cttcatggac agtgtccagc acatgtcact ctccactctc tcagtgtgga tccactagtt     360
     45  ctagagcggc cgccaccgcg gtggagctcc agcttttgtt ccctttagtg agggttaatt     420
     46  gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca     480
     47  attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg     540
W--> 48  anctaactca cattaattgc gttgcgctca ctgnccgctt ccagtcngg aaaactgtcg     600
W--> 49  tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttggggggc     660
W--> 50  tcttccgctt ctcgctcact nantcctgcg ctcggtcntt cggctgcggg gaacggtatc     720
W--> 51  actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccngg aaaaaanttt     780
W--> 52  aacaaagggg cancaaaggg cngaaacgta aaaa                                 814
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     55 <211> LENGTH: 816
     56 <212> TYPE: DNA
     57 <213> ORGANISM: Homo sapien
     59 <220> FEATURE:
     60 <221> NAME/KEY: misc_feature
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RAW SEQUENCE LISTING   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:33

Input Set : **A:\427d3.app.txt**
Output Set: **N:\CRF3\12212001\J010940.raw**

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 66 ttcatggctg ttggagcaat agaaccccag ttctacgagc tgctgatcaa aggacttgga   120
 67 ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag   180
 68 aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc   240
 69 acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac   300
 70 aaggaacggg gctcgtttat caccagtgag gagcaggacg tgagcccccg ccctgcacct   360
 71 ctgctgttaa acaccccagc catcccttct ttcaaaaggg atccactagt tctagaagcg   420
 72 gccgccaccg cggtggagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt   480
 73 ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccccc   540
W--> 74 aacatacgag ccggaacata aagtgttaag cctggggtgc ctaatgantg agctaactcn   600
W--> 75 cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn   660
W--> 76 ttantgaatc ngccacccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc    720
W--> 77 tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcact cctcaaaggc   780
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 81 <211> LENGTH: 773
 82 <212> TYPE: DNA
 83 <213> ORGANISM: Homo sapien
 85 <220> FEATURE:
 86 <221> NAME/KEY: misc_feature
 87 <222> LOCATION: (1)...(773)
 88 <223> OTHER INFORMATION: n = A,T,C or G
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 92 tcctgctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc   120
 93 tcctcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac   180
 94 tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca   240
W--> 95 tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc   300
 96 tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa   360
 97 gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgagggg ggcccggtac    420
W--> 98 ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcgtt ttacaacgtc   480
 99 gtgactggga aaaccctggg cgttaccaac ttaatcgcct tgcagcacat ccccctttcg   540
W--> 100  ccagctgggc gtaatancga aaaggcccgc accgatcgcc cttccaacag ttgcgcacct   600
W--> 101  gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnggg tttngttgtt   660
W--> 102  accccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcnccttt    720
W--> 103  cttcccttcc tttcncnccn ctttcccccg gggtttcccc cntcaaaccc cna           773
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106 <211> LENGTH: 828
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapien
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)...(828)
113 <223> OTHER INFORMATION: n = A,T,C or G
115 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:33

Input Set : A:\427d3.app.txt
Output Set: N:\CRF3\12212001\J010940.raw

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      118  tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag      180
      119  acgtgggtga ccatgttgtt tgtggggtgc agagatggga ggggtggggc ccaccctgga      240
      120  agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc      300
W--> 121  acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct      360
W--> 122  gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt      420
W--> 123  ctanagcggc cgccaccgcg gtgganctcc ancttttgtt ccctttagtg agggttaatt      480
W--> 124  gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca      540
W--> 125  attccacaca acatacganc cggaaacata aantgtaaac ctggggtgcc taatgantga      600
W--> 126  ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg      660
W--> 127  ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct      720
W--> 128  tccgcttcct cnctcantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc      780
W--> 129  accncctcca aaggggggtat tccggtttcc ccnaatccgg gganancc                 828
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      137 <221> NAME/KEY: misc_feature
      138 <222> LOCATION: (1)...(834)
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      143  agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatgtt      120
      144  attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac      180
      145  tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggt cactccaagc ttggcagtta      240
      146  acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg      300
      147  taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag      360
      148  aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga      420
      149  cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat      480
      150  tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta      540
      151  tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttggtgtgc      600
      152  ttattttaaa ttagtgctaa atggattaag tgaagacaac aatggtcccc taatgtgatt      660
W--> 153  gatattggtc attttacca gcttctaaat ctnaactttc aggcttttga actggaacat      720
W--> 154  tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa      780
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      158 <211> LENGTH: 818
      159 <212> TYPE: DNA
      160 <213> ORGANISM: Homo sapien
      162 <220> FEATURE:
      163 <221> NAME/KEY: misc_feature
      164 <222> LOCATION: (1)...(818)
      165 <223> OTHER INFORMATION: n = A,T,C or G
      167 <400> SEQUENCE: 6

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      168  tttttttttt tttttttttt aagaccctca tcaatagatg gagacataca gaaatagtca       60
      169  aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga      120
      170  tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagttg agccaataat      180
      171  gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga      240
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RAW SEQUENCE LISTING   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:33

Input Set : A:\427d3.app.txt
Output Set: N:\CRF3\12212001\J010940.raw

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         174  gtgagctcag gtgattgata ctcctgatgc gagtaatacg gatgtgttta ggagtgggac   420
         175  ttctagggga tttagcgggg tgatgcctgt tgggggccag tgccctccta gttggggggt   480
         176  aggggctagg ctggagtggt aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga   540
         177  ggtaataaat aggattatcc cgtatcgaag gcctttttgg acaggtggtg tgtggtggcc   600
         178  ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg   660
W--> 179  ttantanggc ctantatgaa gaactttttgg antggaatta aatcaatngc ttggccggaa   720
W--> 180  gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnacccat   780
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         184  <211> LENGTH: 817
         185  <212> TYPE: DNA
         186  <213> ORGANISM: Homo sapien
         188  <220> FEATURE:
         189  <221> NAME/KEY: misc_feature
         190  <222> LOCATION: (1)...(817)
         191  <223> OTHER INFORMATION: n = A,T,C or G
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         196  ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcggtga   180
         197  aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaat gtggggacag   240
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         199  gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg   360
         200  gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc   420
         201  attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa   480
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W--> 204  gaatnttnng gaaaagggct tacaggacta gaaaccaaat angaaaanta atnntaangg   660
W--> 205  cnttatcntn aaaggtnata accnctccta tnatcccacc caatngnatt ccccacncnn   720
W--> 206  acnattggat nccccanttc canaaanggc cnccccccgg tgnannccnc cttttgttcc   780
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         216  <222> LOCATION: (1)...(799)
         217  <223> OTHER INFORMATION: n = A,T,C or G
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         221  cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt   120
         222  ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catccgcgag   180
         223  tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg   240
W--> 224  tgggtggccg angcctganc cgctctgcct tgctgccccc angtgggccg ccacccctg   300
W--> 225  acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac ccccacangg   360
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RAW SEQUENCE LISTING   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:33

Input Set : A:\427d3.app.txt
Output Set: N:\CRF3\12212001\J010940.raw

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W--> 229   caagncctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt    600
W--> 230   tccttttcnt tnagggttaa tnncgccttg gccttnccan ngtcctncnc nttttccnnt    660
W--> 231   gttnaaattg ttangcnccc nccnntcccn cnncnncnan cccgacccnn annttnnann    720
W--> 232   ncctgggggt nccnncngat tgacccnncc nccctntant tgcnttnggg nncnntgccc    780
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     237 <212> TYPE: DNA
     238 <213> ORGANISM: Homo sapien
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     243 <223> OTHER INFORMATION: n = A,T,C or G
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     248   caaggacaag gccaccaggt gcgggggccg aagcccacat gatccttact ctatgagcaa   180
W--> 249   aatcccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang   240
W--> 250   caggtcatgg ggttgtngnc caactggggg ccncaacgca aaanggcnca gggcctcngn   300
W--> 251   cacccatccc angacgcggc tacactnctg gacctcccnc tccaccactt tcatgcgctg   360
W--> 252   ttcntacccg cgnatntgtc ccanctgttt cngtgccnac tccancttct nggacgtgcg   420
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W--> 256   gctgaantcc ccatnaccnn gnctcnatgg anccntccnt tttaannacn ttctnaacctt   660
W--> 257   gggaanancc ctcgnccntn cccccnttaa tcccnccttg cnangnncnt ccccnnntcc   720
W--> 258   ncccnnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnncn cctcanttcg   780
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     269 <223> OTHER INFORMATION: n = A,T,C or G
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     274   agatcctgcc ctacacactg gcctccctct accaccggga gaagcaggtg ttcctgccca   180
     275   aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttcctgc   240
     276   caggccctaa gcctggagct cccttcccta atggacacgt gggtgctgga ggcagtggcc   300
     277   tgctcccacc tccacccgcg ctctgcgggg cctctgcctg tgatgtctcc gtacgtgtgg   360
W--> 278   tggtgggtga gcccaccgan gccagggtgg ttccggccg gggcatctgc ctggacctcg   420
W--> 279   ccatcctgga tagtgcttcc tgctgtccca ngtggcccca tccctgttta tgggctccat   480
     280   tgtccagctc agccagtctg tcactgccta tatggtgtct gccgcaggcc tgggtctggt   540
W--> 281   cccatttact ttgctacaca ggtantattt gacaagaacg anttggccaa atactcagcg   600
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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/010,940

DATE: 12/21/2001
TIME: 08:56:34

Input Set : A:\427d3.app.txt
Output Set: N:\CRF3\12212001\J010940.raw

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L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
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L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
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L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
```

VERIFICATION SUMMARY   DATE: 12/21/2001
PATENT APPLICATION: US/10/010,940   TIME: 08:56:34

Input Set : **A:\427d3.app.txt**
Output Set: **N:\CRF3\12212001\J010940.raw**

L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9